

Central Federal Lands Highway Division

Project Schedule and Resource Management

Version (Date): January 16, 2004

Activity ID: D2	Activity Title: Develop 30% Design
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Activity Definition: Develop and distribute the 30% design plans.

Predecessor Activities (ID's) & Relationships (i.e.: FS, SS, or FF) & Time Lag:	Successor Activities (ID's) & Relationships (i.e.: FS, SS, or FF) & Time Lag:
1. Pred: B2 Rel: FF Lag: 0	1. Succ: D2.PR Rel: FS Lag: 0 (If necessary, usually 4R's)
2. Pred: D1SV Rel: FS Lag: 0	2. Succ: D3 Rel: FS Lag: 0
3. Pred: G2 Rel: SS Lag: 0	3. Succ: E3 Rel: FF Lag: -1
4. Pred: H2 Rel: FF Lag: 0	4. Succ: Rel: Lag:
5. Pred: R2 Rel: FF Lag: 0	5. Succ: Rel: Lag:
6. Pred: Rel: Lag:	6. Succ: Rel: Lag:
7. Pred: Rel: Lag:	7. Succ: Rel: Lag:

Required Activity Tasks:

DESIGN/PLANS

1. Incorporate comments from the 15% field review.
2. Refine the typical sections and update the horizontal and vertical alignments.
3. Identify and include preliminary locations for pullouts and approach roads.
4. Determine any utility conflicts.
5. Review the current environmental documents for the projects. Become familiar with the environmental policy, impacts and issues associated with the project. Support the environmental process as necessary.
6. Develop preliminary major structural design.
7. Develop safety design.

8. Prepare or update a draft Highway Design Standards form.
9. Develop preliminary drainage design.
10. Develop preliminary erosion control design concepts.
11. Update plan and profile sheets.
12. Calculate quantities for the major bid items and bid tabulations for major items.
13. Develop details and specials as necessary.
14. Verify that the most up-to-date standards are included.

ESTIMATE

15. Develop the preliminary unit price analysis for major pay items.
16. Develop a preliminary cost estimate (Class “C” estimate).

REVIEW

17. Coordinate 30% field review (as required).
18. Assemble, print and distribute the 30% package to internal and external agencies.
19. **For A/E projects:**
 - Assist PM in writing scope of work & IGE as requested
 - Assist PM in negotiations as requested.
 - Attend progress meetings as requested
 - Items 17 and 18 (above) only apply to outsourced A/E projects